CLAIMS

We claim:

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jack

1. An improved phone plug for a phone line system including a data network; said phone jack comprising:

a housing having a rear-receiving end and a plugging end, a plug-receiving socket formed in said rear-receiving end and adapted to receive a modular phone plug; said plugging end being so formed that said plugging end can be plugged into a regular phone jack coupled to said phone line system including said data network;

a number of inductors; and

and second ends; said first ends projecting into said plugreceiving socket for engaging a contact of said modular phone plug when said modular phone plug is inserted into said socket; said second ends coupled respectively to said plugging end through said inductors.

- 2. The improved phone jack as recited in claim 1; wherein said number is *n* such that each of said conductors is coupled to said plugging end through one of said inductors.
- 3. The improved phone jack as recited in claim 2; wherein *n* is 4 such that said plugging end can be plugged into said regular phone jack in a residential home.
- 4. The improved phone jack as recited in claim 1; wherein said number is *n*/2 such that every other one of said conductors is

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coupled to said plugging end through one of said inductors and the rest of said conductors are coupled to said plugging end directly.

- 5. The improved phone jack as recited in claim 4; wherein *n* is 4 such that said plugging end can be plugged into said regular phone jack in a residential home.
- 6. An improved phone plug for a phone line system including a data network; said phone jack comprising:

a housing having a rear-receiving end and a plugging end, a number of plug-receiving sockets formed individually in said rear-receiving end and each adapted to receive a modular phone plug; said plugging end being so formed that said plugging end can be plugged into a regular phone jack coupled to said phone line system including said data network;

n groups of inductance circuits; and

n groups of conductors mounted in said housing; each of said conductors having first ends and second ends; said first ends projecting into one of said plug-receiving socket for engaging a contact of said modular phone plug when said modular phone plug is inserted into said one of said plug-receiving socket; said second ends coupled respectively to said plugging end through one of said groups of said inductance circuits.

7. The improved phone plug as recited in claim 6, wherein each of said inductance circuits comprises an inductor.

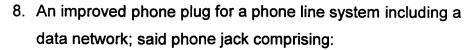
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a housing having a rear-receiving end and a plugging end, a first plug-receiving socket and a second plug-receiving socket formed individually in said rear-receiving end, wherein said first plug-receiving socket is adapted to receive a first modular phone plug from a phone device; said second plug-receiving socket is adapted to receive a second modular phone plug from a computing device;

said plugging end being so formed that said plugging end can be plugged into a regular phone jack coupled to said phone line system including said data network;

n inductors; and

a first group and a second group of n conductors mounted respectively in said housing and having first ends and second ends; said first ends of said first group of n conductors projecting into said first plug-receiving socket for engaging a contact of said first modular phone plug when said first modular phone plug is inserted into said first plug-receiving socket; said second ends of said first group of n conductors coupled respectively to said plugging end through said n inductors.

9. The improved phone plug as recited in claim 8, wherein said first ends of said second group of n conductors projecting into said second plug-receiving socket for engaging a contact of said second modular phone plug when said second modular phone plug is inserted into said second plug-receiving socket; said second ends of said second group of n conductors coupled to said plugging end directly.

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်ခင်္ 10.The improved phone plug as recited in claim 9, wherein said first plug-receiving socket is visually labeled for a phone device and said second plug-receiving socket is visually labeled for a computing device.

